In the Specification:

Replace the paragraph beginning on page 8, line 12 with the following amended paragraph:

The generalized likelihood ratio (GLR) test is classically applied in model selection but it is also adapted to segmentation algorithms, e.g. the one presented by Fancourt and Principe. In this embodiment the function used to estimate the signal in the segment is median. The error is calculated from the mean absolute error between the median and the signal within segment. For closer details of the algorithm see the article by Fancourt et al. It is clear that the segmentation may be implemented in alternative ways, e.g., with a method described in "The biomedical engineering"; Bronzino, Joseph D,CRC Press, Inc.,1995.